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JVC LT-32X676 SERVICE MANUAL

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JVC

SERVICE MANUAL

LCD FLAT TELEVISION

LT-32X676/T

BASIC CHASSIS
FL2

The following items for the LT-32X676/T was changed partly from LT-32X575/T.
Therefore, this service manual describes only the items which differ from those of the LT-32X575/T service manual.
For details other than those described in this manual, please refer to the LT-32X575/T service manual (No.YA214, 2004/9).

MAIN DIFFERENCE POINT

Item	LT-32X575/T	LT-32X676/T
Cabinet design	World Wide New Tooling	New Tooling (Asia SX5 Design)
Stand type	Oval type	Half moon type

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No.YA379
2006/1

DIFFERENCE LIST

USING P.W. BOARD (Page 3-2)

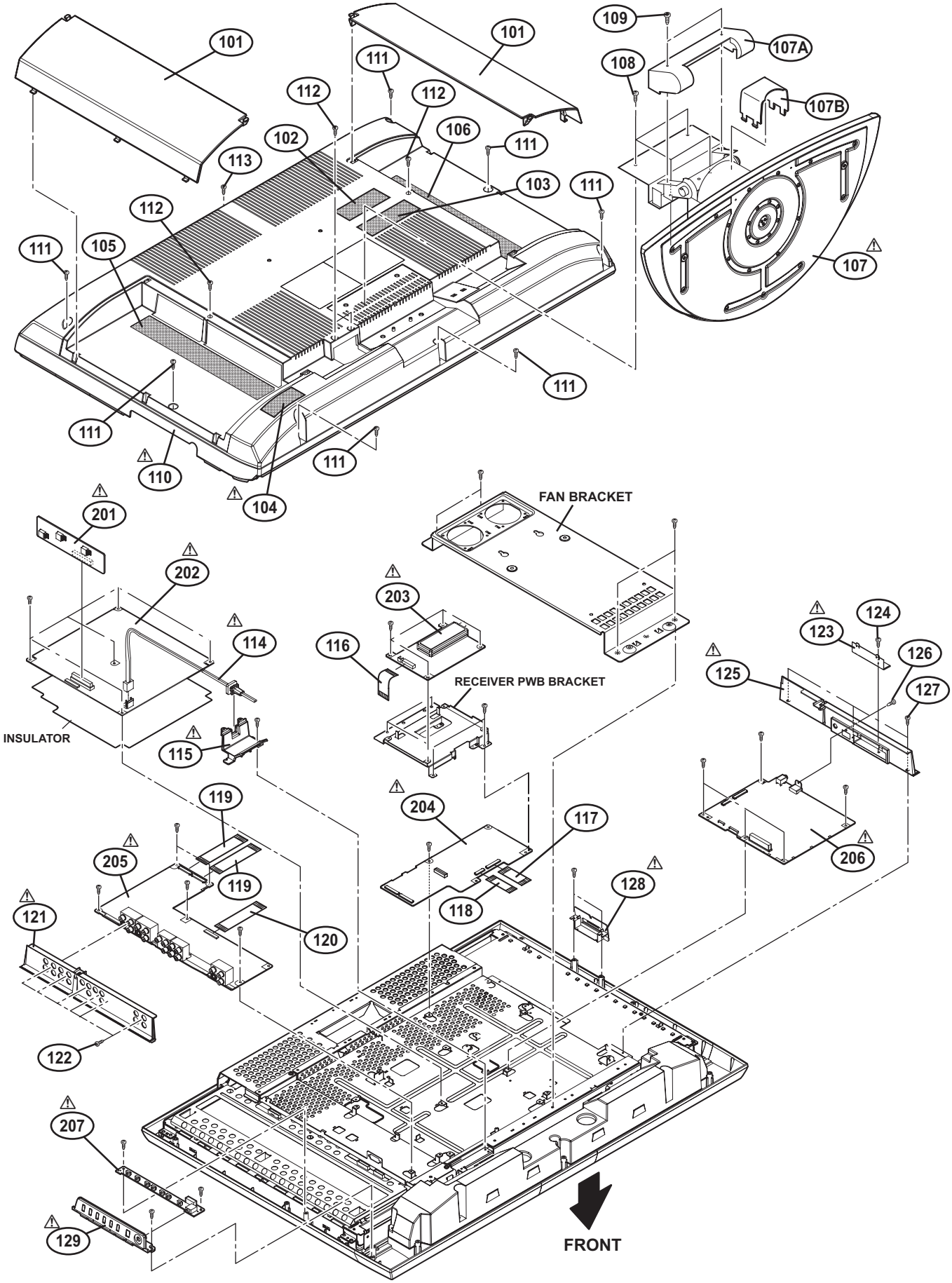
P.W.B ASS'Y Name	LT-32X575/T	LT-32X676/T	DESCRIPTION
ANALOG SIGNAL PWB	LCA90350-12C (SFL-1012A)	LCA90609-01A (SFL-1015A)	
FRONT CONTROL PWB	LCA90351-11A (SFL-7011A)	LCA90469-05A (SFL-7114A)	
FRONT SENSOR PWB	LCA90352-11A (SFL-8011A)	LCA90470-05A (SFL-8143A)	
DIGITAL SIGNAL PWB	LCA10428-74A (SFL-0D107A)	LCA10428-82A (SFL-0D113A)	

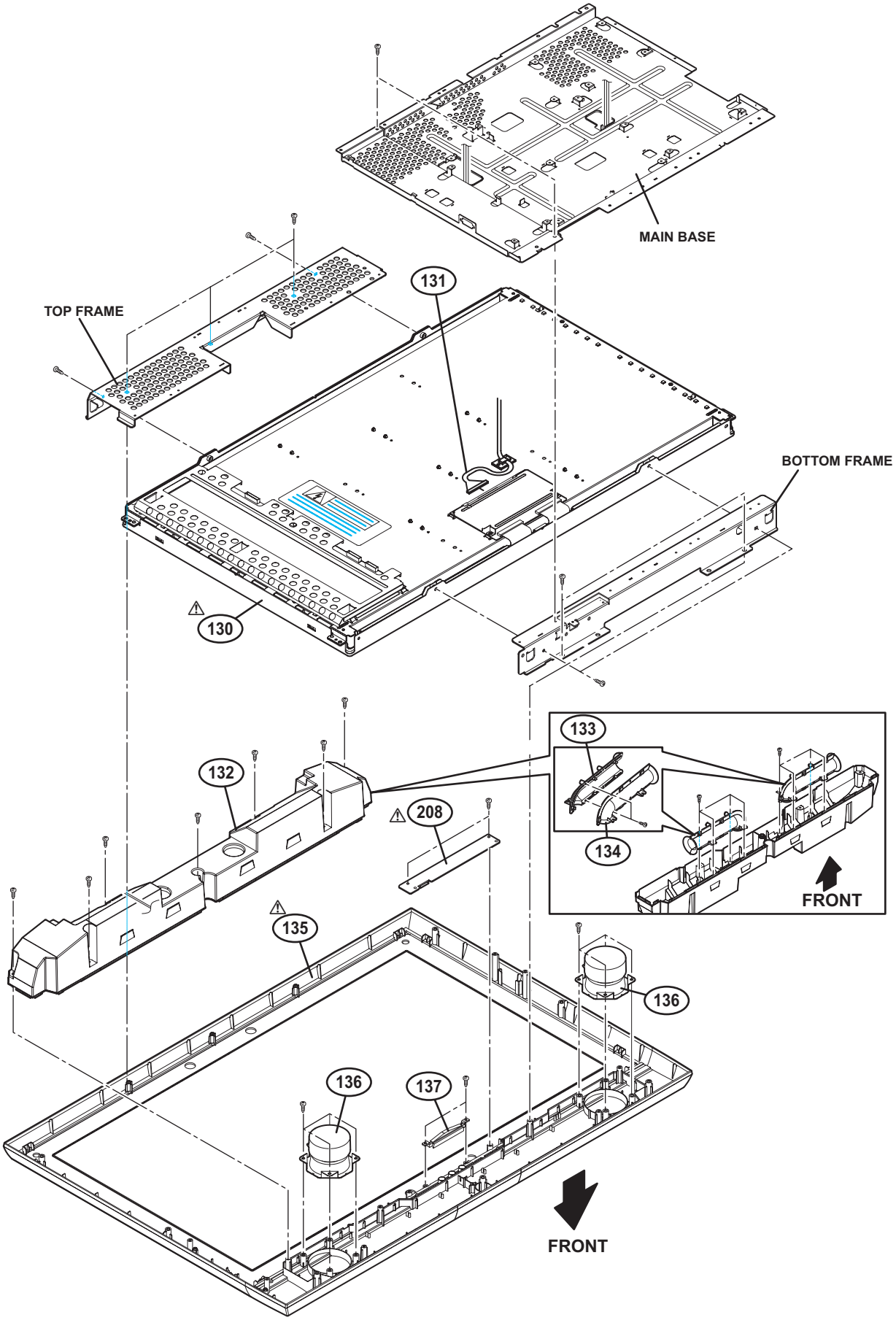
EXPLODED VIEW PARTS LIST

⚠	Ref. No.	Part No.	PART NAME	DESCRIPTION
	101	LC12325-001B	JACK COVER	(x2)
	102	LC32912-001A-A	BBE LABEL	
	103	LC41424-001A-A	HDMI WARNING	
⚠	104	LC41999-002A	CAUTION LABEL	
	105	LC32748-002B-H	OPERATION SHEET	
	106	LC32749-002A-H	OPERATION SHEET	
⚠	107	LC42220-001A-C	STAND ASSY	Inc.107A/107B
	107A	T0014-01	STAND COVER	
	107B	T0016-02	CORD COVER	
	108	QYSPSPD5014MA	SCREW	M5 x 14mm(x4)
	109	QYSPSPD3016ZA	SCREW	M3 x 16mm(x2)
⚠	110	LC12408-005A	REAR COVER	
	111	QYSBSFG4016MA	TAP SCREW	M4 x 16mm(x7)
	112	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x4)
	113	QYSPSPD3008MA	SCREW	M3 x 8mm
⚠	114	QMPR810-170-JC	POWER CORD	1.7m BLACK
⚠	115	LC21348-001D-HK	POWER CORD HOLDER	
	116	QUQL05-4006AL-E	FFC WIRE	40pin 6cm
	117	QUQL05-5004AA-E	FFC WIRE	50pin 4cm
	118	QUQL05-3004AA-E	FFC WIRE	30pin 4cm
	119	QUQ105-5009AE-E	FFC WIRE	50pin 9cm(x2)
	120	QUQK12-1906CH-E	FFC WIRE	19pin 6cm
⚠	121	LC21596-002B-HK	TERMINAL BASE	
	122	QYSBSF3010MA	TAP SCREW	M3 x 10mm(x6)
⚠	123	LC32760-001A-HK	SERVICE COVER	
	124	QYSBSF3010MA	TAP SCREW	M3 x 10mm
⚠	125	LC21597-002C-HK	TUNER BASE	
	126	QYSPSP3008MA	SCREW	M3 x 8mm
	127	QYSPSPD3008MA	SCREW	M3 x 8mm(x3)
⚠	128	LC33126-003A-HK	SD CARD BASE	
⚠	129	LC33196-004B	CONTROL ASSY	
⚠	130	QLD0377-001	LCD PANEL UNIT	
	131	WJW0021-001A-E	DIGITAL(LVDS) CABLE	
	132	LC12253-001E-H	SPEAKER BOX	

⚠	Ref. No.	Part No.	PART NAME	DESCRIPTION
	133	LC21340-001C-HK	DUCT COVER	(x2)
	134	LC21339-001B-HK	DUCT BASE	(x2)
⚠	135	LC12321-003D	FRONT PANEL ASSY	
	136	QAS0142-001	SPEAKER	SP01/SP02(x2)
	137	LC33125-001B-HK	LED LENS	
⚠	201	LCA90349-07B	REGULATOR PWB	
⚠	202	LCA90348-07D	POWER PWB	
⚠	203	LCA10447-51A	RECEIVER PWB	
⚠	204	LCA90353-11A	CONNECTOR PWB	
⚠	205	LCA90609-01A	ANALOG SIGNAL PWB	
⚠	206	LCA10428-82A	DIGITAL SIGNAL PWB	
⚠	207	LCA90469-05A	FRONT CONTROL PWB	
⚠	208	LCA90470-05A	FRONT SENSOR PWB	

EXPLODED VIEW




MAIN BASE
TOP FRAME
131
BOTTOM FRAME
130
133
132
208
134
FRONT
135
136
136
137
FRONT

PRINTED WIRING BOARD PARTS LIST

ANALOG SIGNAL P.W. BOARD ASS'Y (Page 3-6)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		LT-32X575/T	LT-32X676/T		
		LCA90350-12C (SFL-1012A)	LCA90609-01A (SFL-1015A)		
	IC6661	TDA8925ST/N1	TDA8928ST/N1	IC	
	C323	QETM1AM-228	QETN1AM-228Z	E CAPACITOR	2200uF 10V M
	C820	NCB31AK-474X	NCB31AK-474X-U	C CAPACITOR	0.47uF 10V K
	C6007	QETM1AM-108	QETN1AM-108Z	E CAPACITOR	1000uF 10V M
	C6664	QETM1HM-226	QETN1HM-226Z	E CAPACITOR	22uF 50V M
	C6666	QETM1HM-226	QETN1HM-226Z	E CAPACITOR	22uF 50V M
	C6669	QFV21HJ-224	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J
	C6670	QFVE1HJ-474	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
	C6672	QETM1EM-477	QETN1EM-477Z	E CAPACITOR	470uF 25V M
	C6674	QETM1EM-477	QETN1EM-477Z	E CAPACITOR	470uF 25V M
	C6678	QFV21HJ-224	QFV21HJ-224Z	MF CAPACITOR	0.22uF 50V J
	C6679	QFVE1HJ-474	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
	C6685	QETM1EM-477	QETN1EM-477Z	E CAPACITOR	470uF 25V M
	C6687	QETM1EM-477	QETN1EM-477Z	E CAPACITOR	470uF 25V M
	R6624	QRJ149J-102	QRJ146J-102X	UNF C RESISTOR	1kΩ 1/4W J
	R6666	QRK129J-5R6	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J
	R6667	QRK129J-220	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J
	R6668	QRK129J-5R6	QRK126J-5R6X	UNF C RESISTOR	5.6Ω 1/2W J
	R6669	QRK129J-220	QRK126J-220X	UNF C RESISTOR	22Ω 1/2W J
	K6601	NQR0413-002X	NQR0499-002X	FERRITE BEADS	
	K6602	NQR0413-002X	NQR0499-002X	FERRITE BEADS	
	K6661	NQR0413-002X	NQR0499-002X	FERRITE BEADS	
	K6662	NQR0413-002X	NQR0499-002X	FERRITE BEADS	
	K6663	NQR0413-002X	NQR0499-002X	FERRITE BEADS	
	K6664	NQR0413-002X	NQR0499-002X	FERRITE BEADS	
	X201	CSB503F30	QAX0873-001	C RESONATOR	

DIGITAL SIGNAL P.W. BOARD ASS'Y (Page 3-12)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		LT-32X575/T	LT-32X676/T		
		LCA10428-74A (SFL-0D107A)	LCA10428-82A (SFL-0D113A)		
	IC4003	AT29LV01-32X585	AT29LV-32X676T	IC	(SERVICE)
	IC4004	AT24C25632X585D	ATF25632X676T1	IC	(SERVICE)
	IC7002	AT24C256-32X585	ATF25632X676T2	IC	(SERVICE)
	IC7602	AT24C16-32X585	ATF16-32X676T	IC	(SERVICE)
	R7404	---	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

PACKING PARTS LIST (Page 3-19)

⚠	Ref. No.	Part No.		PART NAME	DESCRIPTION
		LT-32X575/T	LT-32X676/T		
	001	LC10006-047A	LC10006-062A	PACKING CASE	
	002	LC21688-001A	LC22000-001A	CUSHION	
	003	LC11983-001B	LC12447-001A	CUSHION ASSY	4pcs in 1set
	009	LCT1750-001A	LCT2047-001A	CAUTION SHEET	
	011	LC21580-003A-0L	---	RATING LABEL	Not supply

SECTION 1
PRECAUTION

Please refer to "LT-32X575/T (No.YA214)" about this section.

SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

Please refer to "LT-32X575/T (No.YA214)" about this section.

SECTION 3
DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

3.1.1 REMOVING THE STAND (Fig.1)

(1) Remove the 2 screws **[A]**, then remove the STAND COVER.
(2) Remove the 4 screws **[B]**, then remove the STAND.

3.1.2 REMOVING THE REAR COVER (Fig.1)

- Remove the STAND.
  (1) Remove the JACK COVER (L/R).
  (2) Remove the 7 screws **[C]**, the 4 screws **[D]**, and the 1 screw **[E]**.
  (3) Remove the REAR COVER.

3.1.3 REMOVING THE REGULATOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 4 screws **[F]**, then remove the FAN BRACKET.
  (2) Remove the 1 screw **[G]**, then remove the POWER CORD HOLDER.
  (3) Remove the POWER CORD from the POWER PWB.
  (4) Remove the REGULATOR PWB.

3.1.4 REMOVING THE POWER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
  (1) Remove the 5 screw **[H]**, then remove the POWER PWB.

3.1.5 REMOVING THE ANALOG SYGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
  (1) Remove the 6 screws **[J]**, then remove the TERMINAL BASE.
  (2) Remove the 5 screws **[K]**, then remove the ANALOG SIGNAL PWB.

3.1.6 REMOVING THE FRONT CONTROL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 3 screws **[L]**, then remove the CONTROL ASSY with the FRONT CONTROL PWB.
  (2) Remove the FRONT CONTROL PWB.

3.1.7 REMOVING THE RECEIVER PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 3 screws **[M]** and the 1 screw **[N]**, then remove the TUNER BASE.
  (2) Remove the 4 screws **[P]**, then remove the RECEIVER PWB.

3.1.8 REMOVING THE CONNECTOR PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 4 screws **[R]**, then remove the RECEIVER PWB BRACKET.
  (2) Remove the 1 screw **[S]**, then remove the CONNECTOR PWB.

3.1.9 REMOVING THE DIGITAL SIGNAL PWB (Fig.1)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the TUNER BASE.
  (1) Remove the 5 screws **[T]**, then remove the DIGITAL SIGNALPWB.

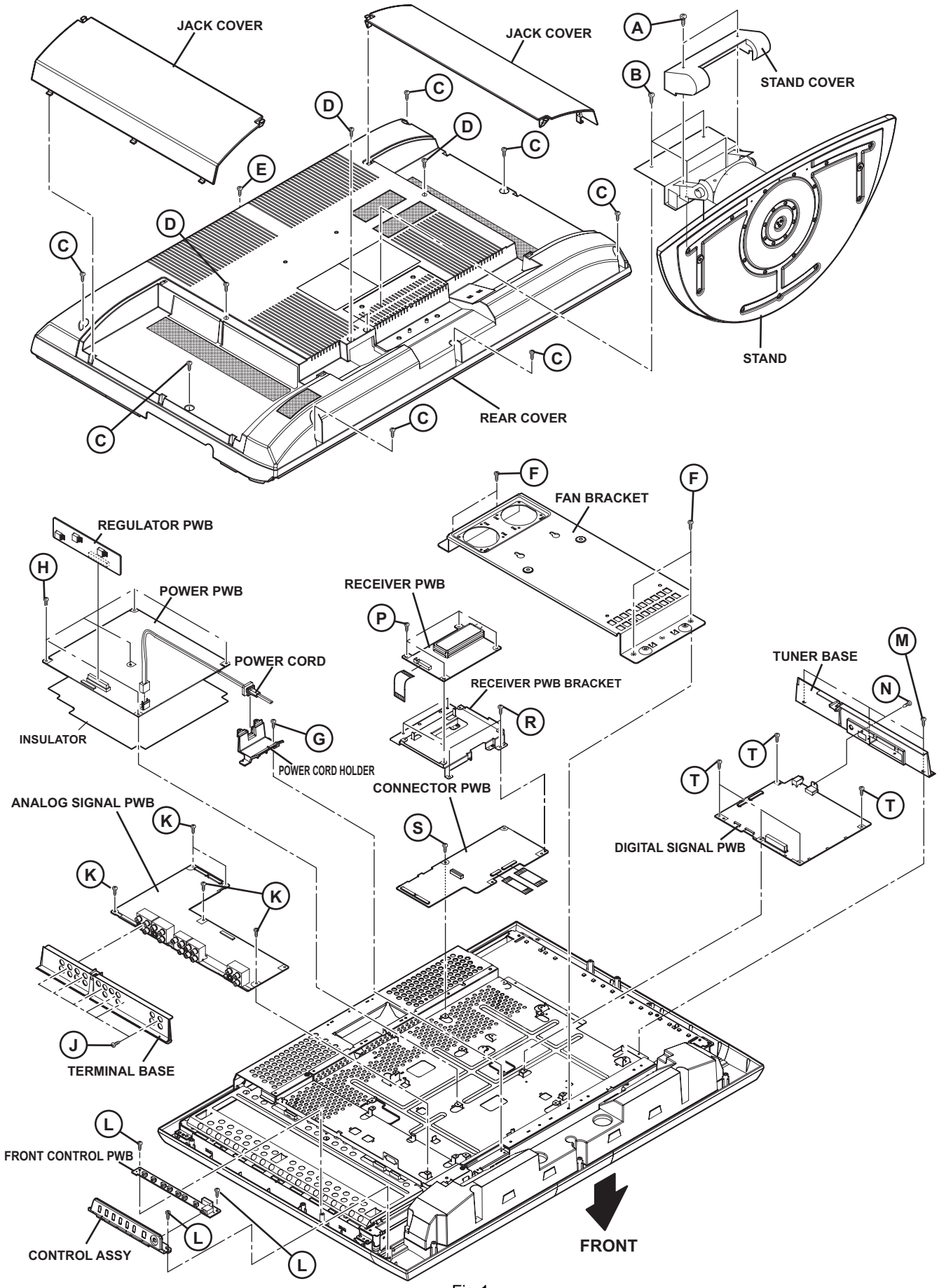

JACK COVER
JACK COVER
A
B
STAND COVER
C
D
D
C
E
D
C
C
C
C
C
STAND
REAR COVER
F
F
FAN BRACKET
REGULATOR PWB
H
POWER PWB
RECEIVER PWB
P
POWER CORD
RECEIVER PWB BRACKET
R
INSULATOR
G
POWER CORD HOLDER
CONNECTOR PWB
TUNER BASE
M
N
T
T
T
DIGITAL SIGNAL PWB
ANALOG SIGNAL PWB
K
K
K
S
J
TERMINAL BASE
L
FRONT CONTROL PWB
L
CONTROL ASSY
L
FRONT

Fig.1

3.1.10 REMOVING THE SPEAKER (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
  (1) Remove the 7 screws **[A]**, then remove the SPEAKER BOX.
  (2) Remove the 4 screws **[B]**, then remove the SPEAKER (L /R).
  (3) Remove the 8 screws **[C]**, then remove the DUCT(L/R).

NOTE:

Since the speaker is attached in a certain direction, attach the speaker in the same correct direction as it has been attached.

3.1.11 REMOVING THE LCD PANEL UNIT (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
  (1) Remove the 4 screws **[D]**, then remove the MAIN BASE.
  (2) Remove the 5 screws **[E]**. then remove the LCD PANEL UNIT with the TOP FRAME and BOTTOM FRAME.
  (3) Remove the 4 screws **[F]**. then remove the TOP FRAME and BOTTOM FRAME from the LCD PANEL UNIT.

3.1.12 REMOVING THE FRONT SENSOR PWB (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
  (1) Remove the 2 screws **[G]**, then remove the FRONT LED PWB.

3.1.13 REMOVING THE LED LENS (Fig.2)

- Remove the STAND.
- Remove the REAR COVER.
- Remove the FAN BRACKET.
  (1) Remove the 2 screws **[H]**, then remove the LED LENS.

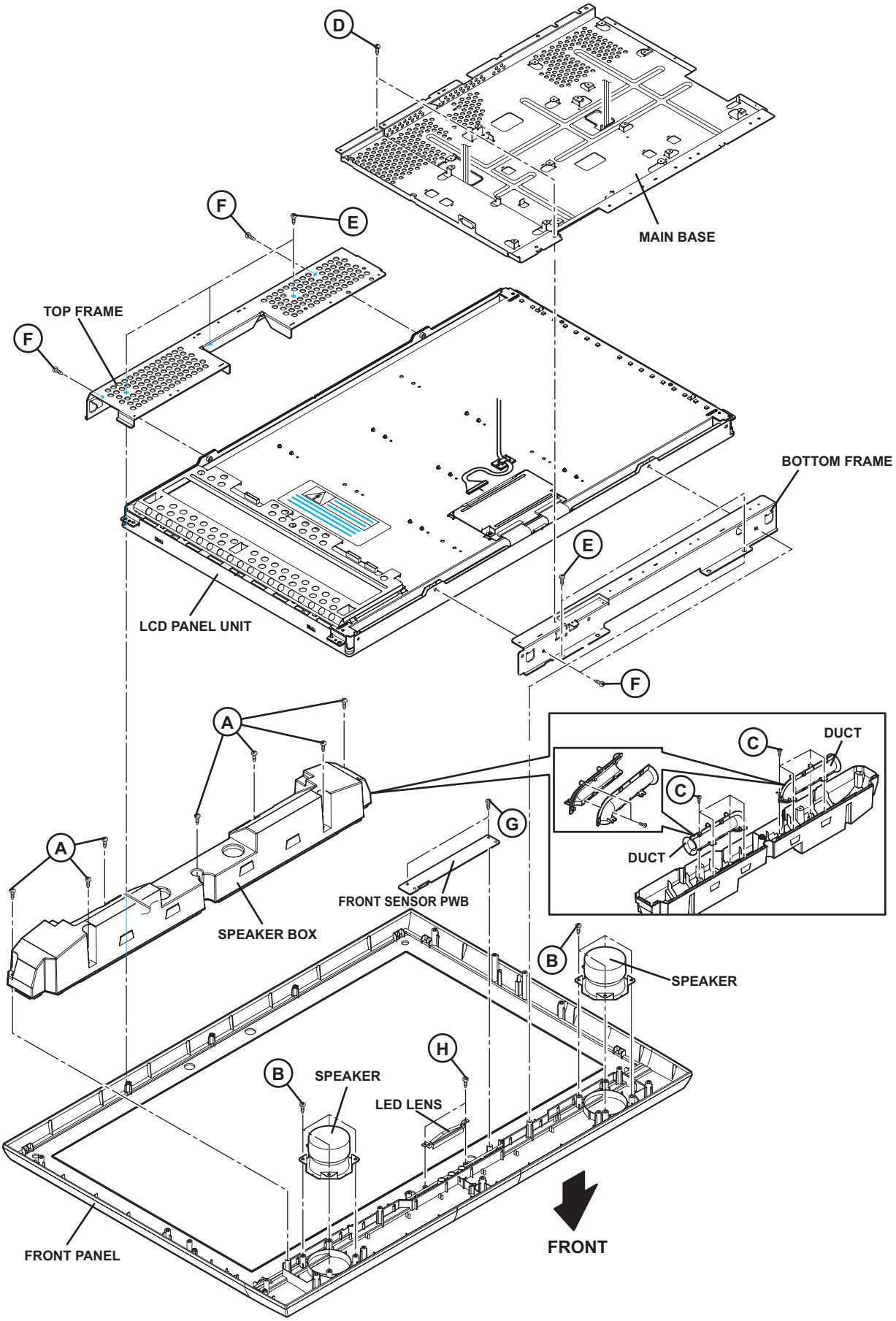

D
MAIN BASE
F
E
TOP FRAME
F
BOTTOM FRAME
E
LCD PANEL UNIT
F
A
C
DUCT
C
DUCT
A
G
FRONT SENSOR PWB
SPEAKER BOX
B
SPEAKER
H
B
SPEAKER
LED LENS
FRONT PANEL
FRONT

Fig.2

SECTION 4
ADJUSTMENT

Please refer to "LT-32X575/T (No.YA214)" about this section.

SECTION 5
TROUBLESHOOTING

Please refer to "LT-32X575/T (No.YA214)" about this section.

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(No.YA379)

Printed in Japan
VPT

JVC

SCHEMATIC DIAGRAMS

LCD FLAT TELEVISION

LT-32X676/T

CD-ROM No.SML200601

BASIC CHASSIS
FL2

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Item	LT-32X575/T	LT-32X676/T
Cabinet design	World Wide New Tooling	New Tooling (Asia SX5 Design)
Stand type	Oval type	Half moon type

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LT-32X676/T

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the ⚠ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal	: Colour bar signal
(2)Setting positions of each knob/button and variable resistor	: Original setting position when shipped
(3)Internal resistance of tester	: DC 20kΩ/V
(4)Oscilloscope sweeping time	: H ⇒ 20μs / div
	: V ⇒ 5ms / div
	: Othters ⇒ Sweeping time is specified
(5)Voltage values	: All DC voltage values

∗ Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

● In the PW board : R209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

No unit	: [Ω]
K	: [kΩ]
M	: [MΩ]

● Rated allowable power

No indication	: 1/16 [W]
Others	: As specified

● Type

No indication	: Carbon resistor
OMR	: Oxide metal film resistor
MFR	: Metal film resistor
MPR	: Metal plate resistor
UNFR	: Uninflammable resistor
FR	: Fusible resistor

∗ Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

1 or higher	: [pF]
less than 1	: [μF]

● Withstand voltage

No indication	: DC50[V]
Others	: DC withstand voltage [V]
AC indicated	: AC withstand voltage [V]

∗ Electrolytic Capacitors

47/50[Example]: Capacitance value [μF]/withstand voltage[V]

● Type

No indication	: Ceramic capacitor
MM	: Metalized mylar capacitor
PP	: Polypropylene capacitor
MPP	: Metalized polypropylene capacitor
MF	: Metalized film capacitor
TF	: Thin film capacitor
BP	: Bipolar electrolytic capacitor
TAN	: Tantalum capacitor

(3)Coils

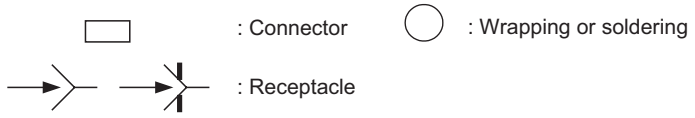
No unit	: [μH]
Others	: As specified

(4)Power Supply

∗ Respective voltage values are indicated

(5)Test point

(6)Connecting method



(7)Ground symbol

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (⊥) side GND and the ISOLATED(NEUTRAL) : (⏚) side GND. Therefore, care must be taken for the following points.

(1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.

(2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ **Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.**

NOTE

◆ **Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.**
When ordering parts, please use the numbers that appear in the Parts List.

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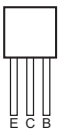
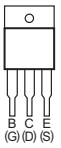
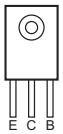
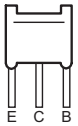
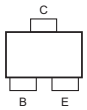
USING P.W. BOARD

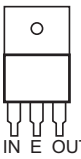
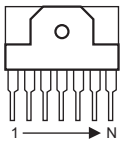
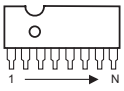
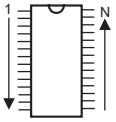
P.W.B ASS'Y name	LT-32X676/T
ANALOG SIGNAL P.W. BOARD	LCA90609-01A (SFL-1015A)
FRONT CONTROL P.W. BOARD	LCA90469-05A (SFL-7114A)
FRONT SENSOR P.W. BOARD	LCA90470-05A (SFL-8143A)

SEMICONDUCTOR SHAPES

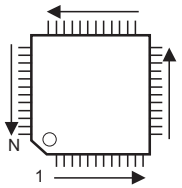
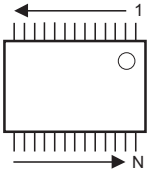
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

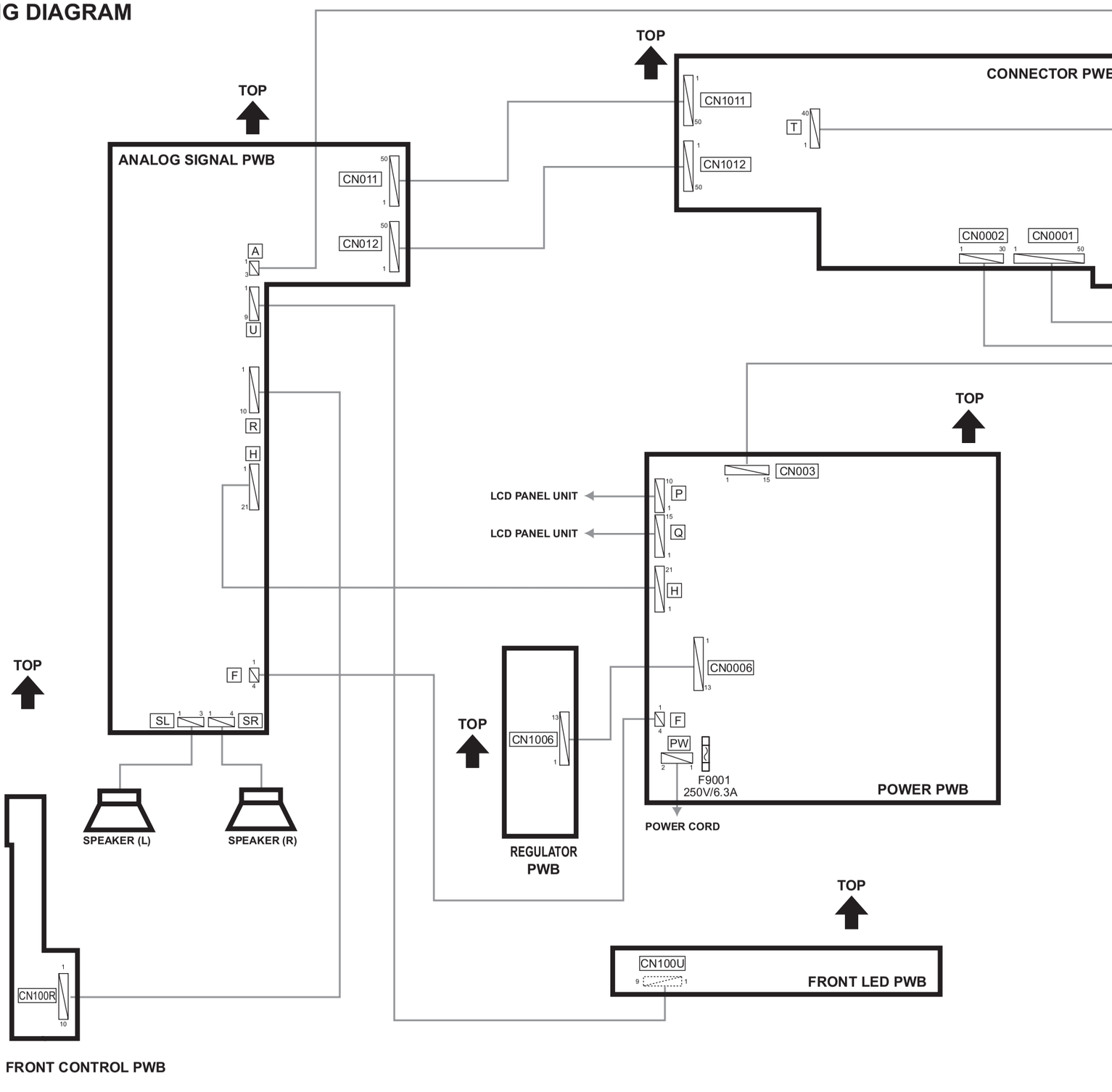
IC

BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

CHIP IC

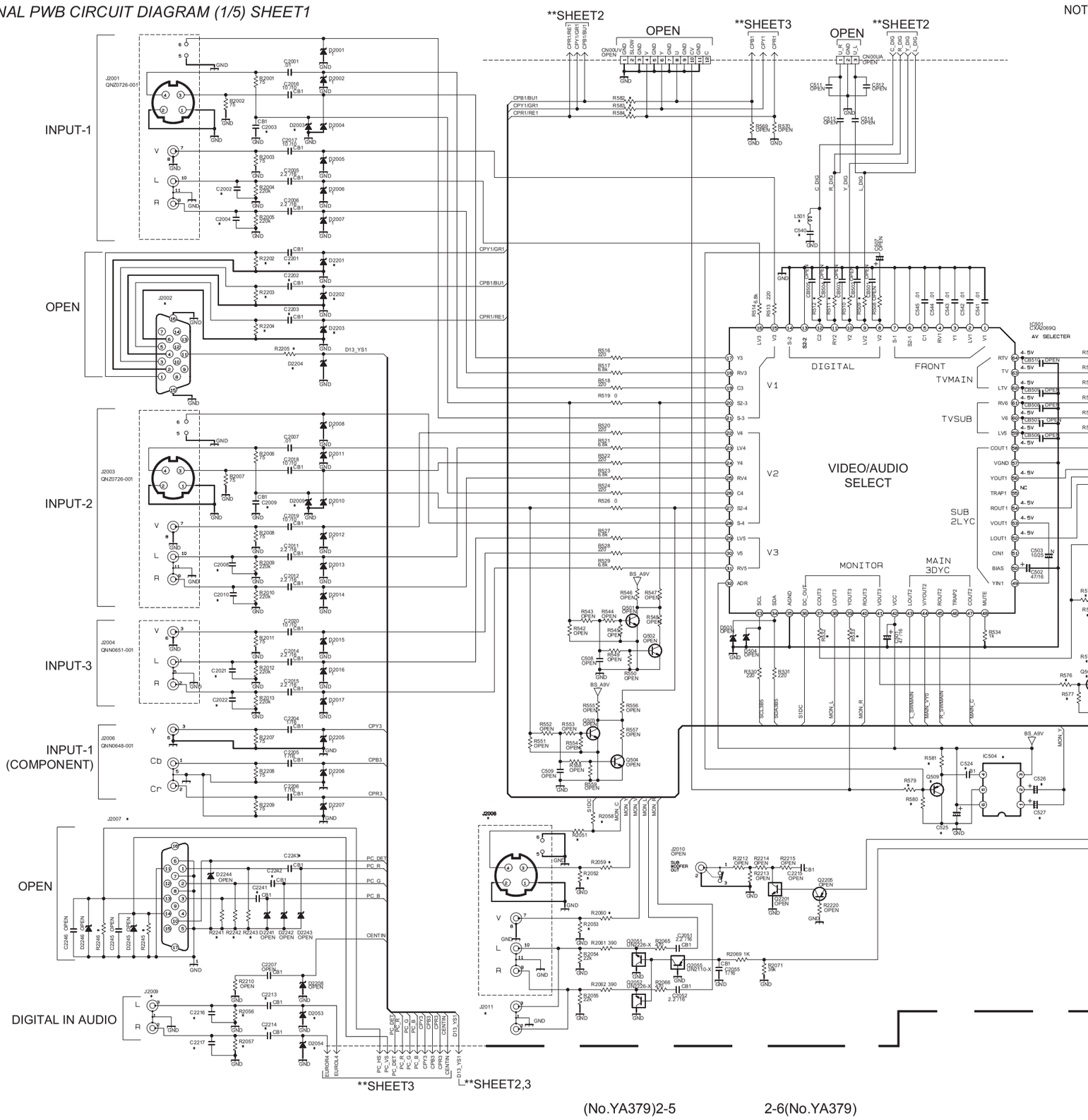
TOP VIEW		
		

WIRING DIAGRAM

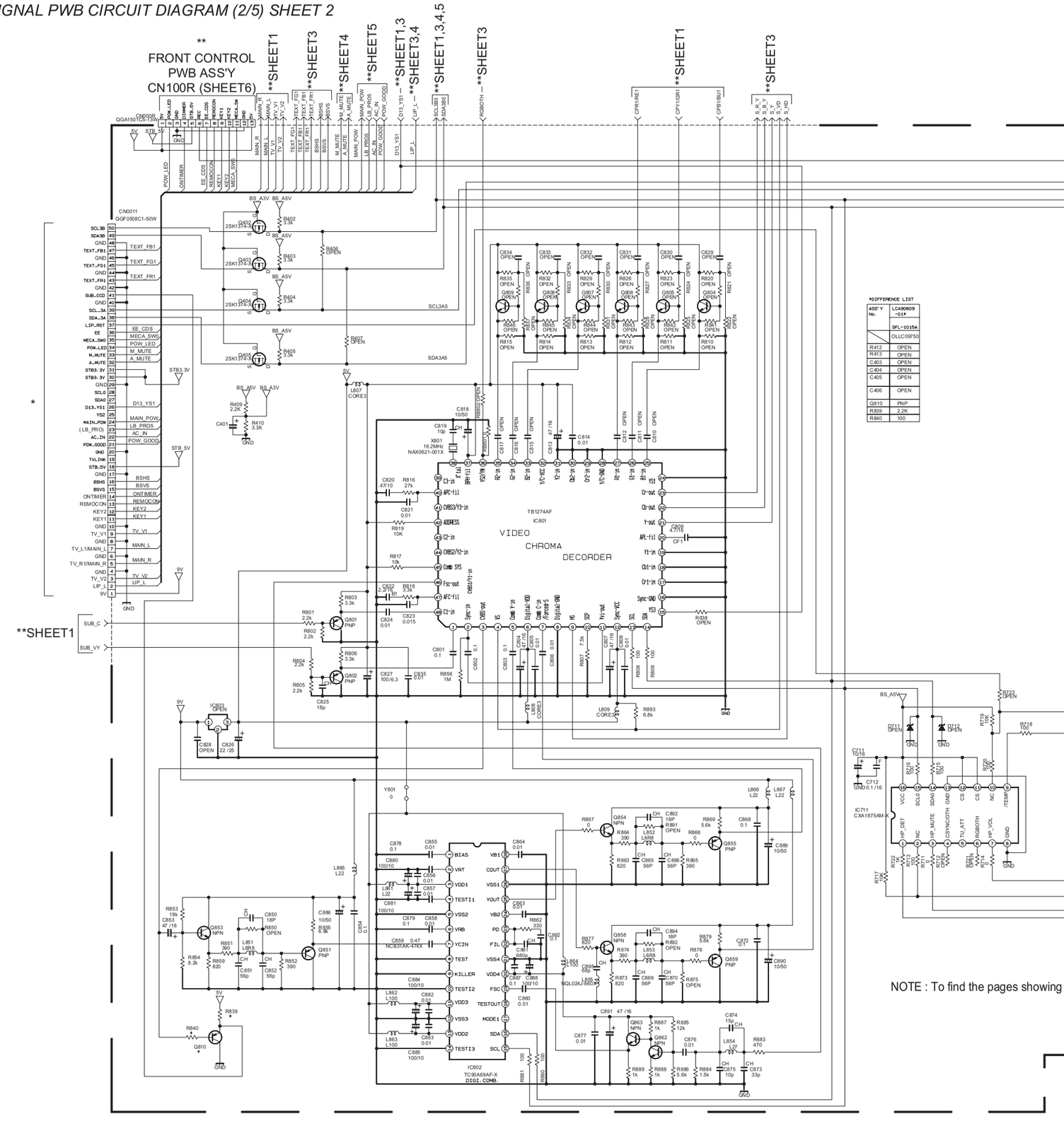


CIRCUIT DIAGRAMS

ANALOG SIGNAL PWB CIRCUIT DIAGRAM (1/5) SHEET1



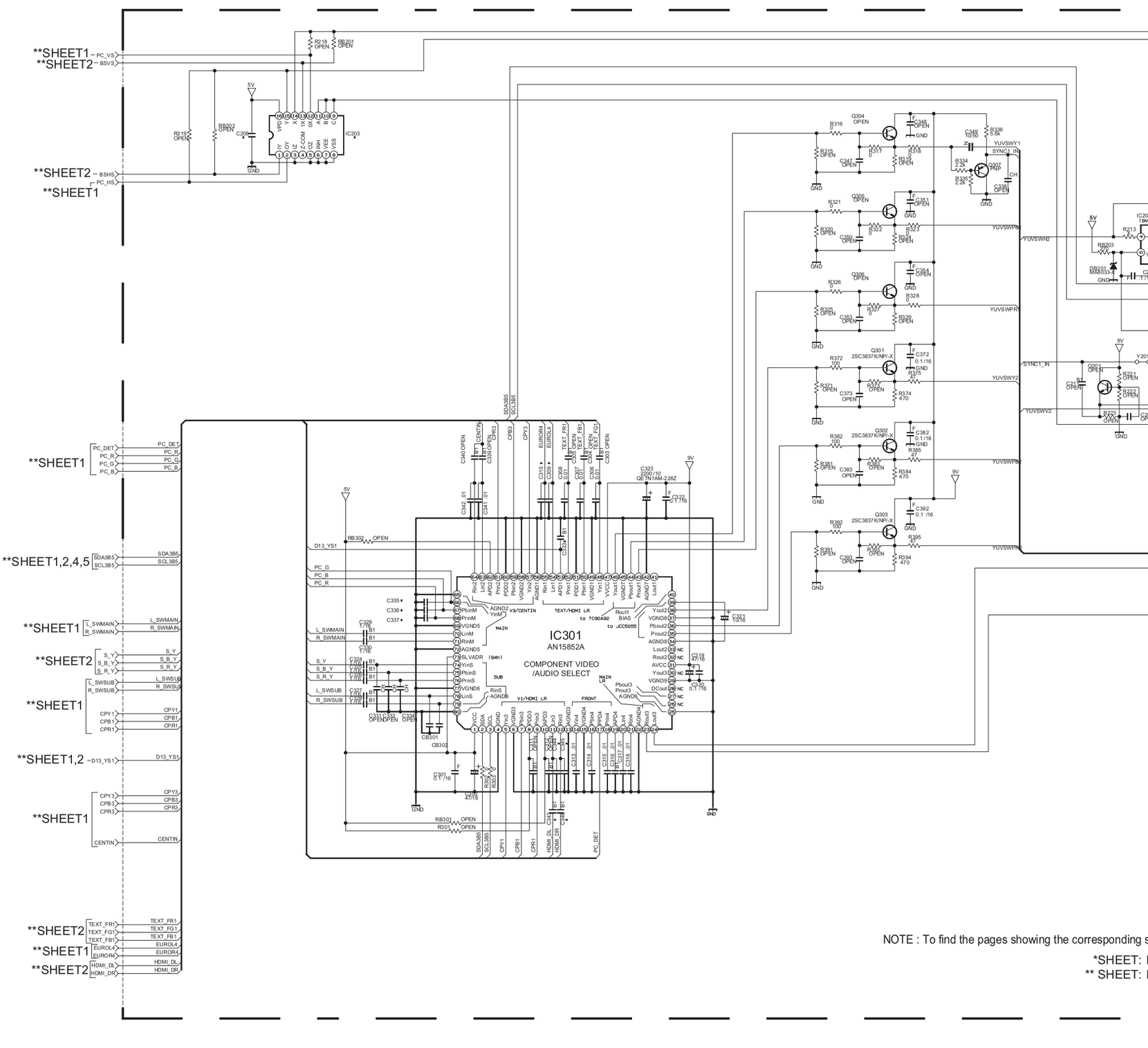
ANALOG SIGNAL PWB CIRCUIT DIAGRAM (2/5) SHEET 2



*DIFFERENCE LIST

ASS'Y No.	LCA90609 -01#
	SFL-1015A
	OLLC09750
R412	OPEN
R413	OPEN
C403	OPEN
C404	OPEN
C405	OPEN
C406	OPEN
Q810	PNP
R839	2.2K
R840	100

ANALOG SIGNAL PWB CIRCUIT DIAGRAM (3/5) SHEET 3

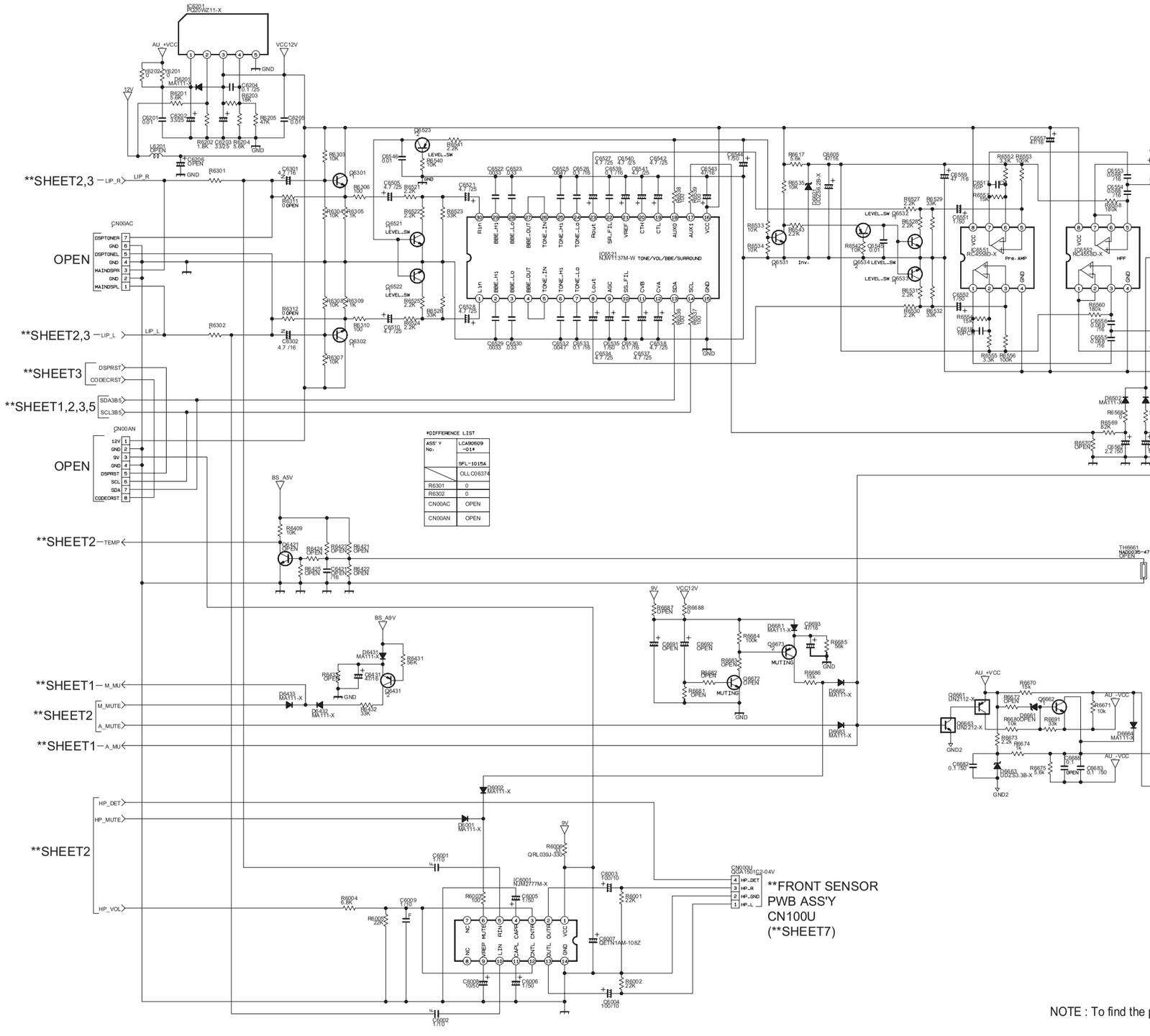


NOTE : To find the pages showing the corresponding s

*SHEET: I

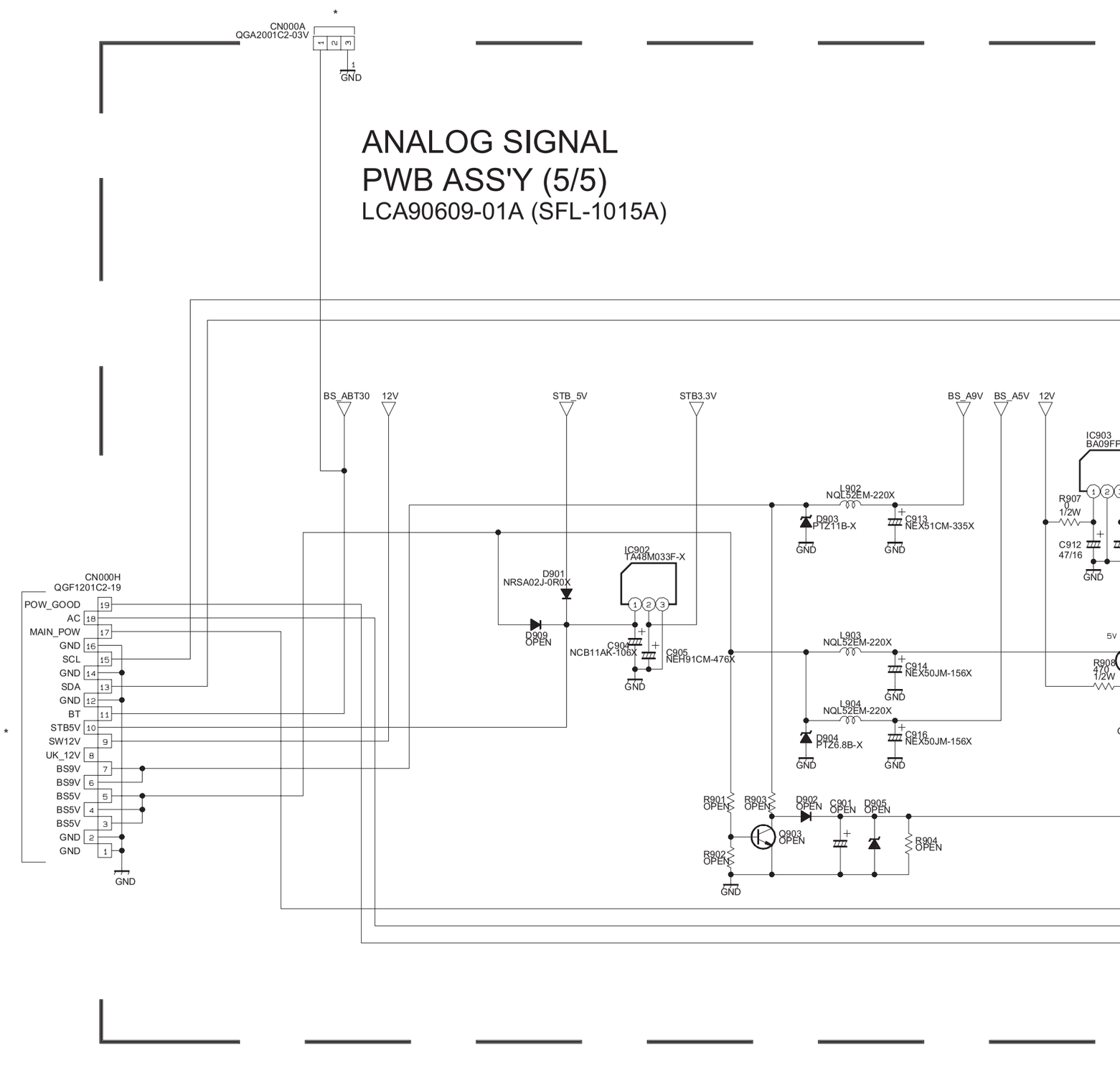
** SHEET: I

ANALOG SIGNAL PWB CIRCUIT DIAGRAM (4/5) SHEET 4



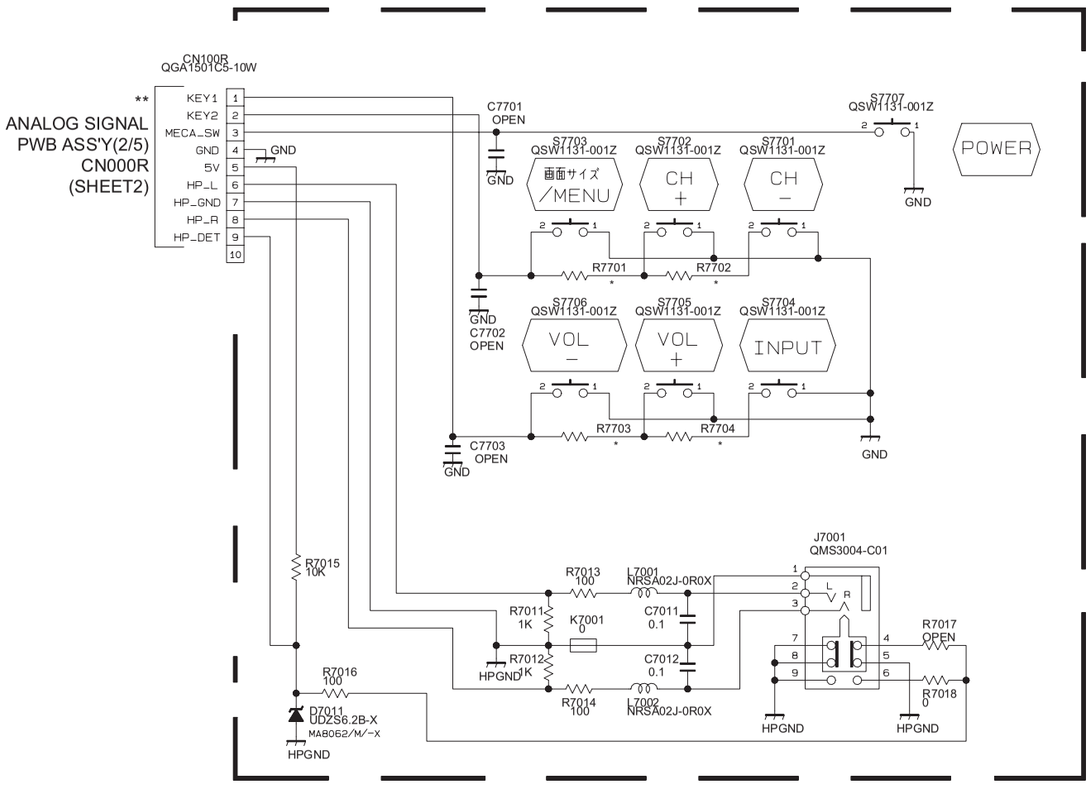
NOTE : To find the p

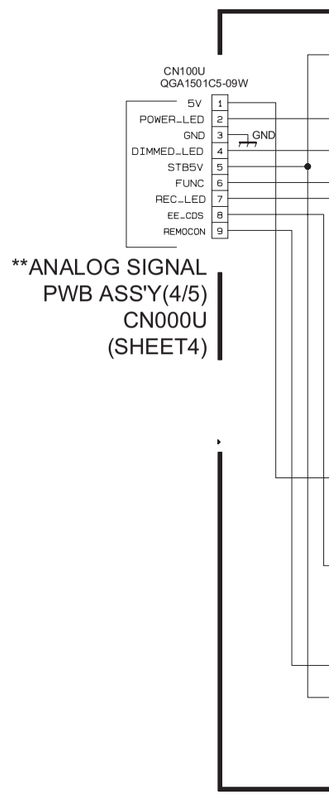
ANALOG SIGNAL PWB CIRCUIT DIAGRAM (5/5) SHEET 5



NOTE : To find the pages showing the corresponding schematic diagram, follow the indication below.

*SHEET: Refer to the service manual(YA214).
** SHEET: Refer to this service manual.





FRONT CONTROL PWB ASS'Y
LCA90469-05A (SFL-7114A)

FRONT
LCA9047

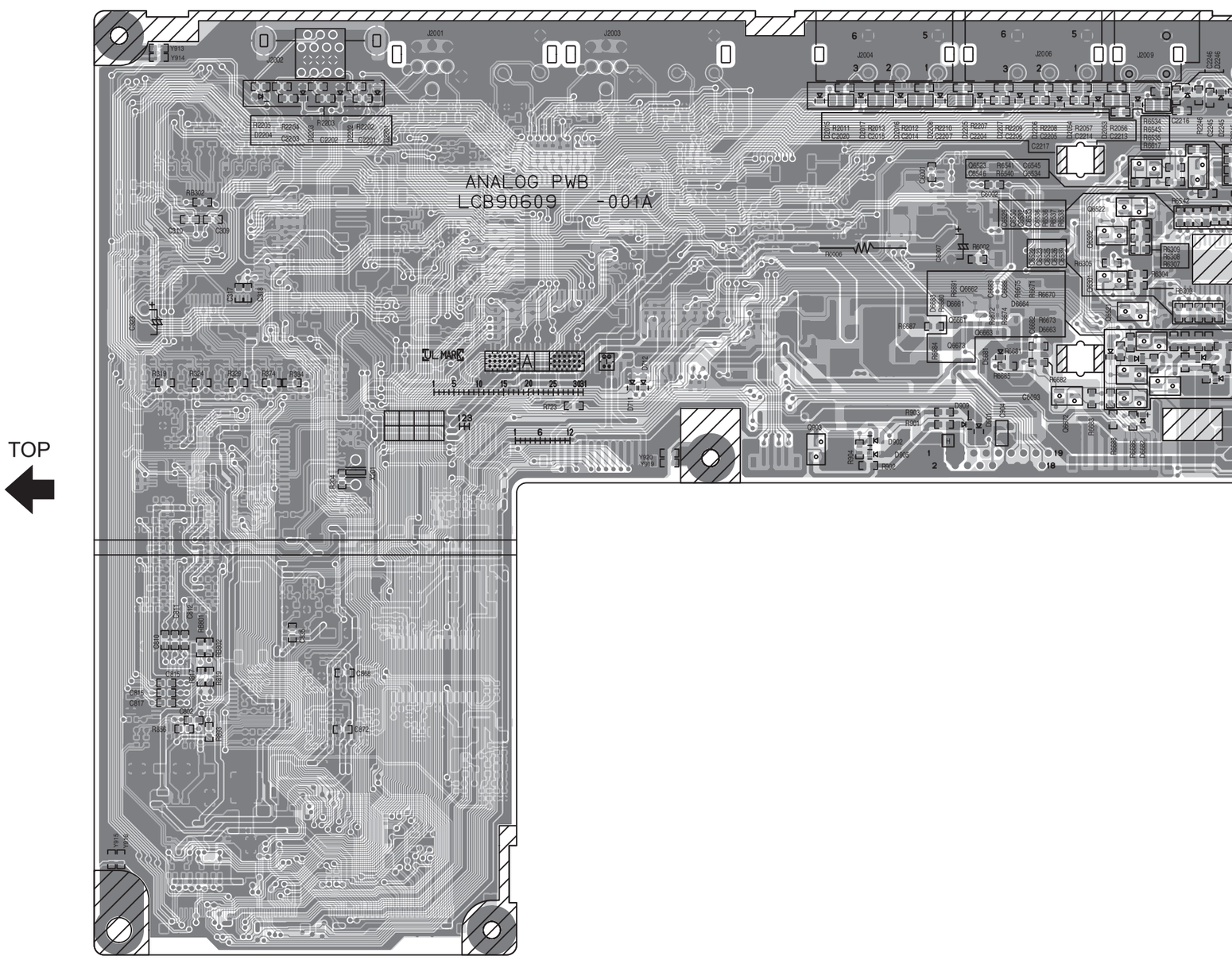
DIFFERENCE LIST

NOTE	JPN US	UK-DTV EUROPE (non-DTV)	ASIA	TAIWAN
INCH	40/37/32/26 40/37/32/26	37/32/26 37/32/26	26/32/37	32
ASS' Y No.	LCA90469 -01*	LCA90469 -02*	LCA90469 -03*	LCA90469 -05*
	SFL-7101A	SFL-7111A	SFL-7112A SFL-7113A	SFL-7114A
	OLLC07662	OLLC08307	OLLC08307-02	OLLC09758
R7701	5.6K	4.7K	4.7K	5.6K
R7702	15K	8.2K	8.2K	15K
R7703	5.6K	4.7K	4.7K	5.6K
R7704	15K	8.2K	8.2K	15K

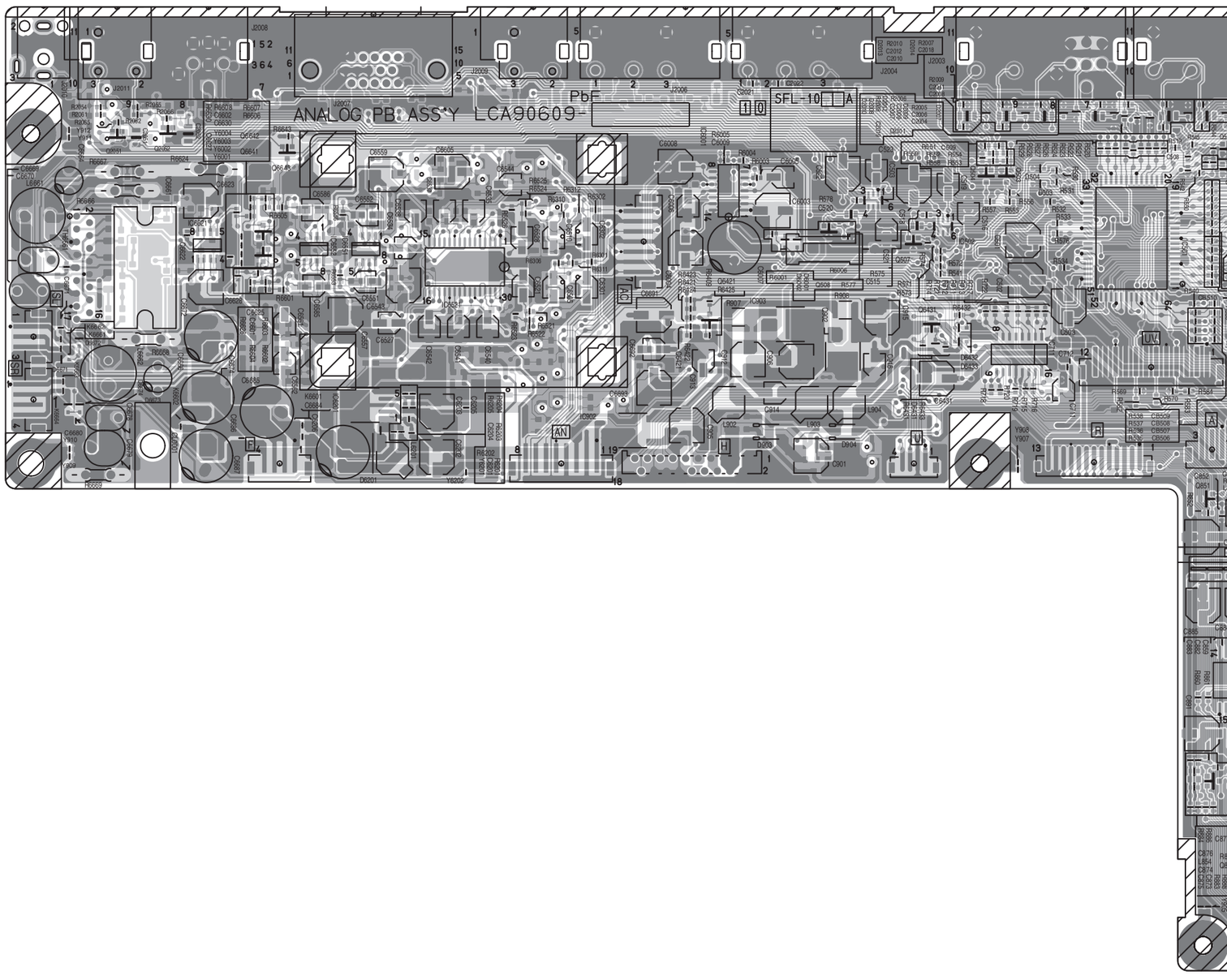
c30156001c001_0930_1/1_0.1

PATTERN DIAGRAMS

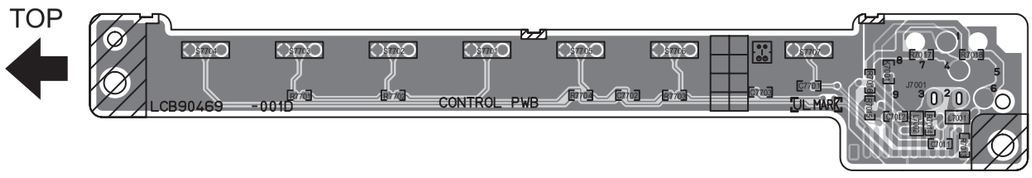
ANALOG SIGNAL PWB PATTERN [SOLDER SIDE]



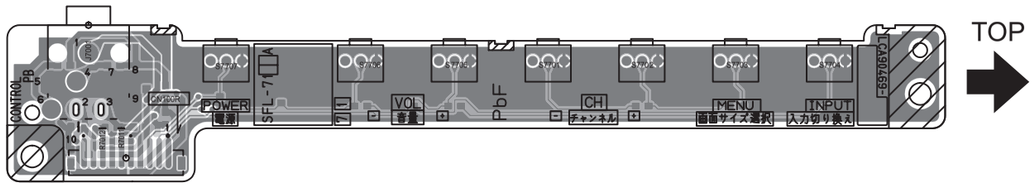
ANALOG SIGNAL PWB PATTERN [PARTS SIDE]



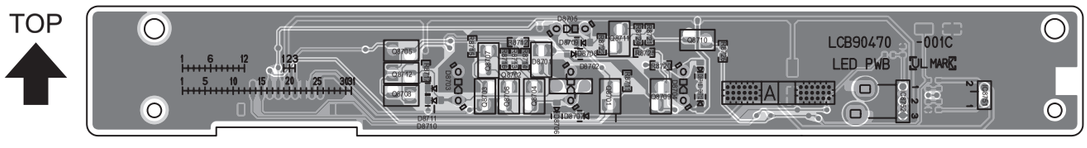
FRONT CONTROL PWB PATTERN [SOLDER SIDE]



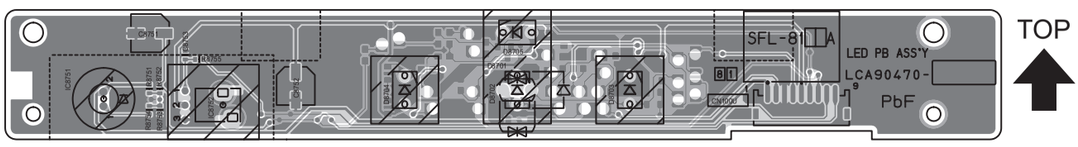
FRONT CONTROL PWB PATTERN [PARTS SIDE]



FRONT SENSOR PWB PATTERN [SOLDER SIDE]



FRONT SENSOR PWB PATTERN [PARTS SIDE]



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